

Figure X

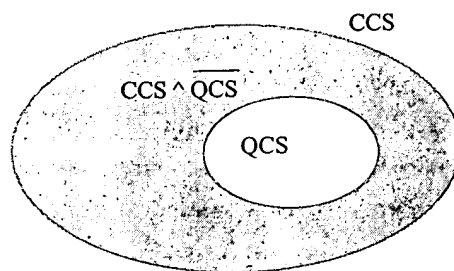


Figure 1: MEGA's Sampling Space:  $CCS \wedge \overline{QCS}$ .

10033349 122101

10032319-122401

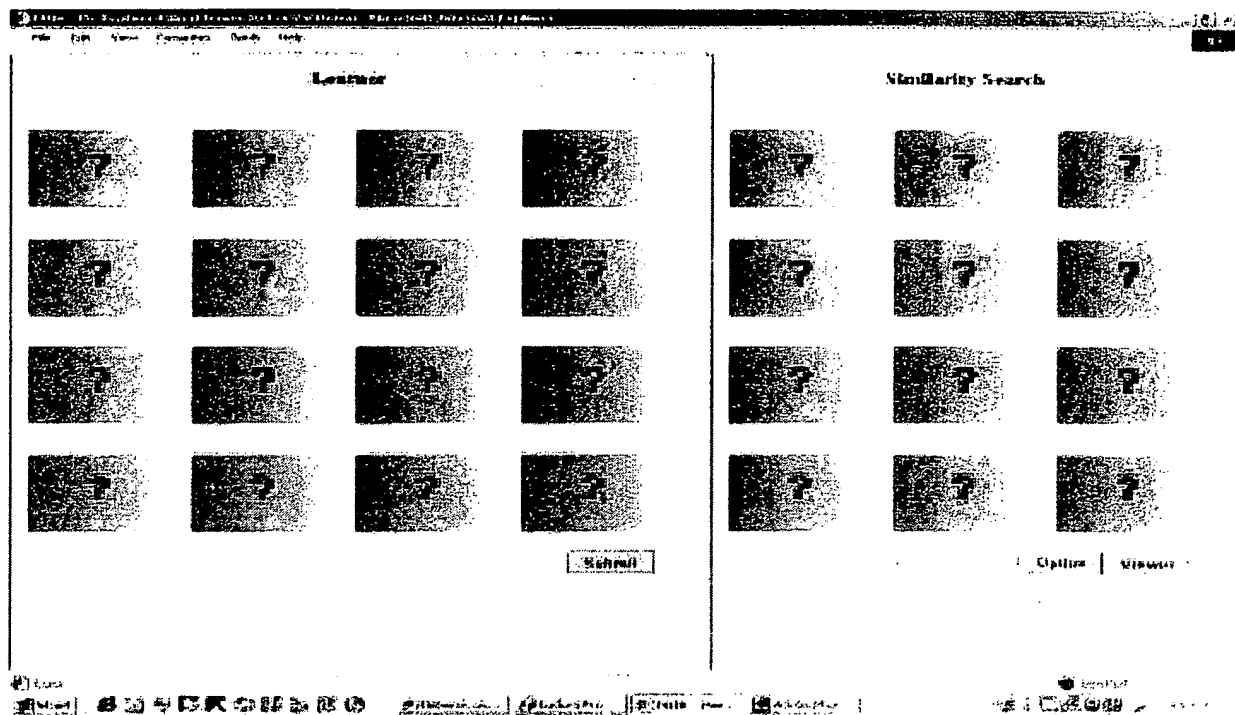


Figure 1: Wild Animal Query Screen #1.

10032319-132401

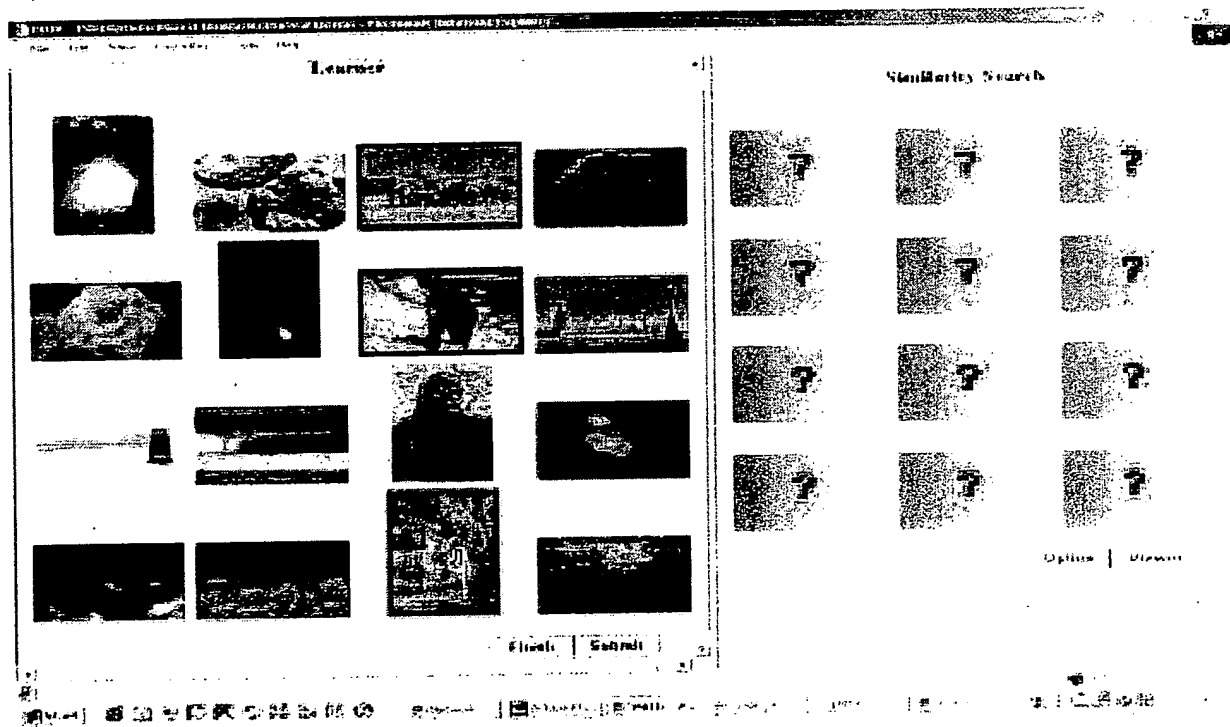


Figure 2: Wild Animal Query Screen #2.

1003319-12101

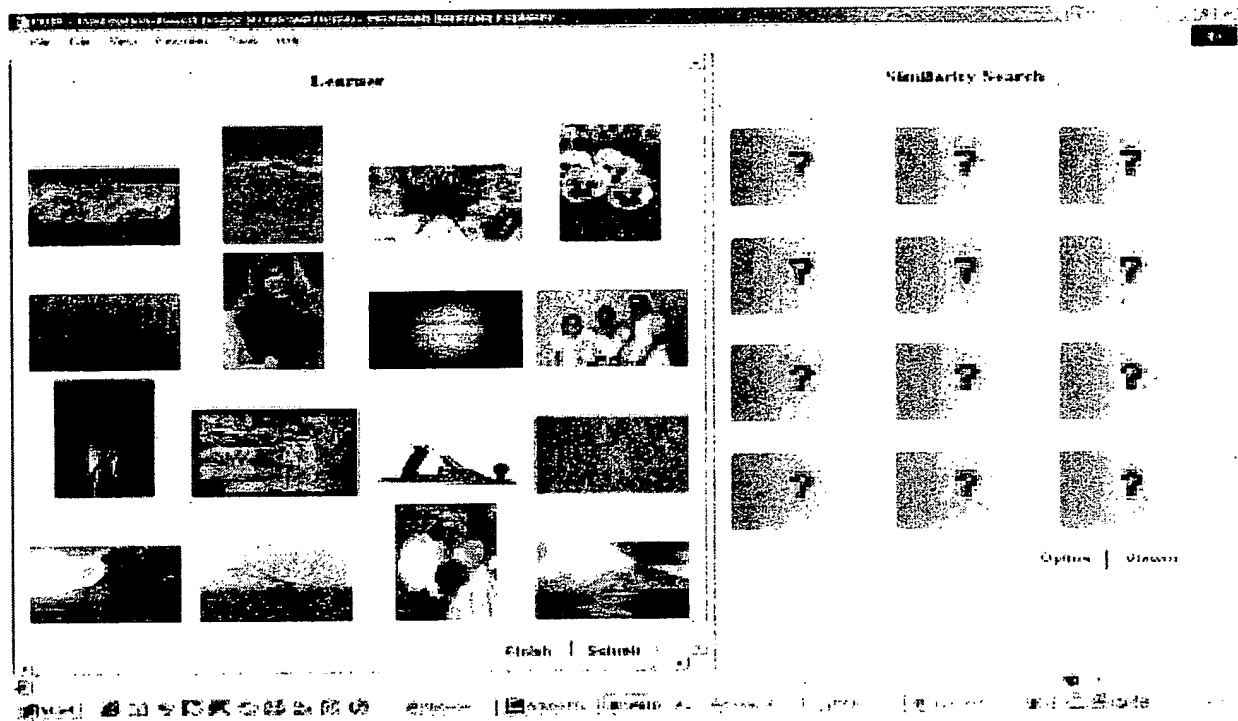


Figure 3: Wild Animal Query Screen #3.

1003249-12101

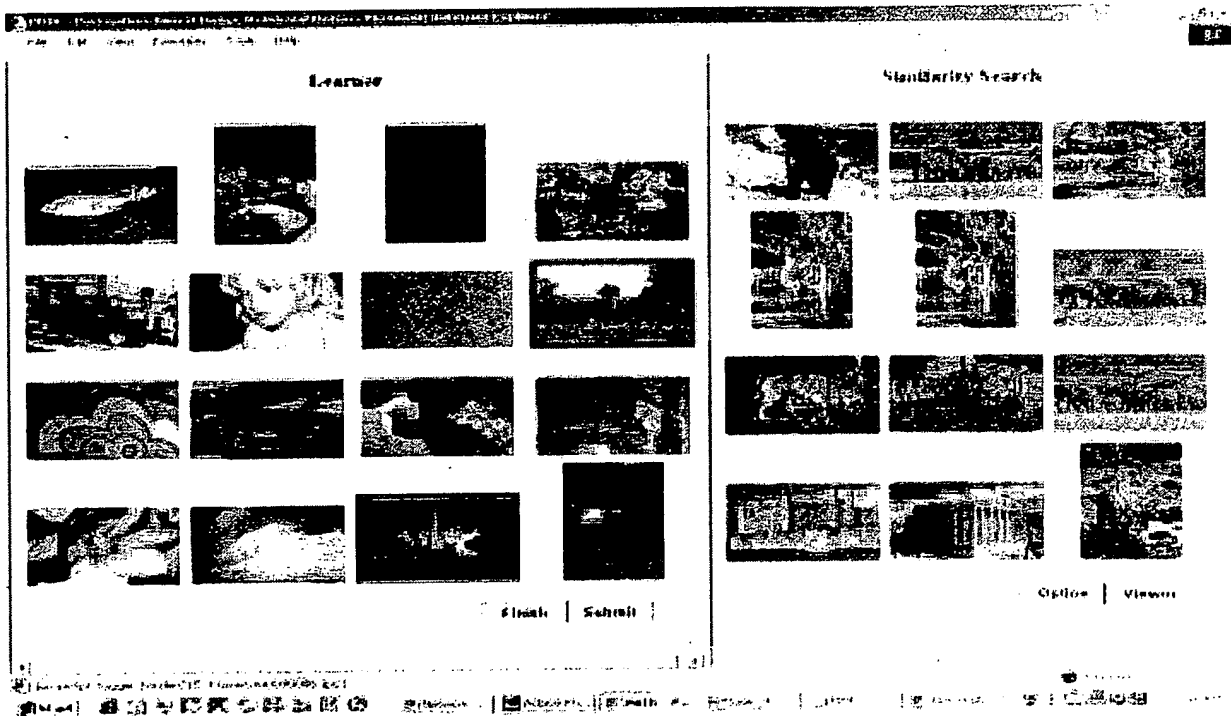


Figure 4: Wild Animal Query Screen #4.

10032319 422101

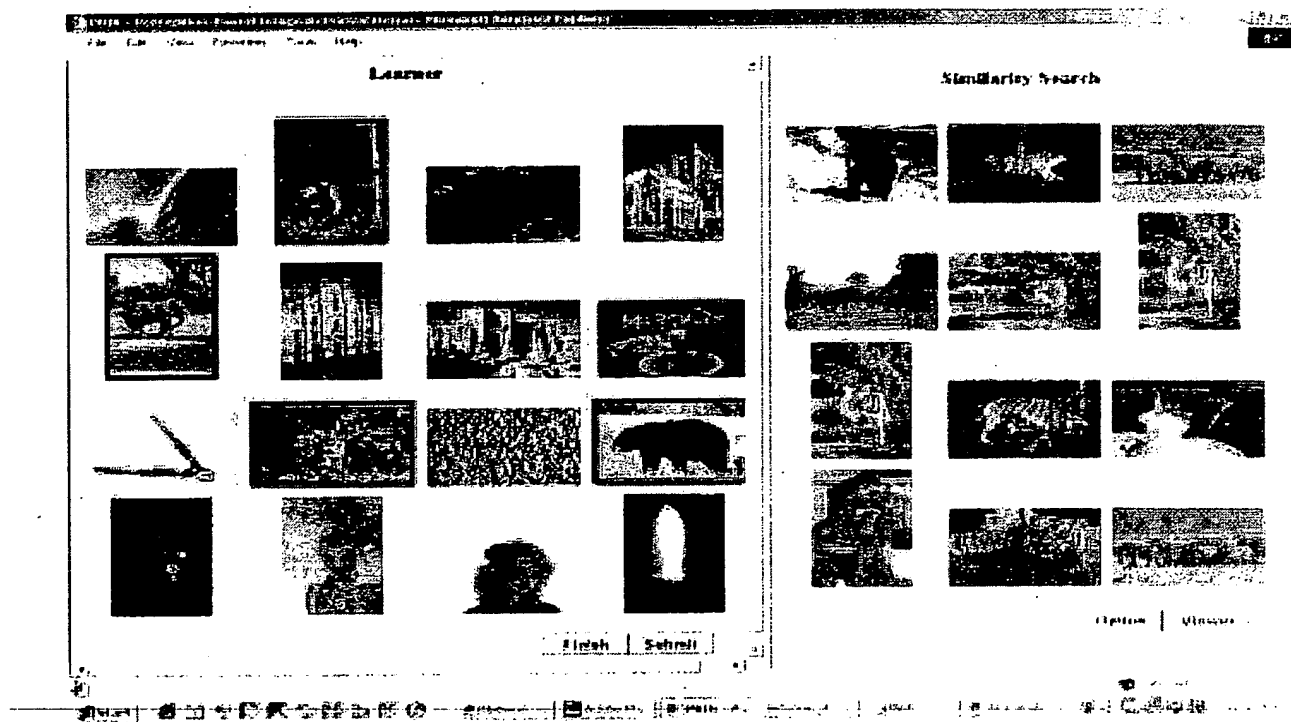


Figure 5: Wild Animal Query Screen #5.

10032319.42401

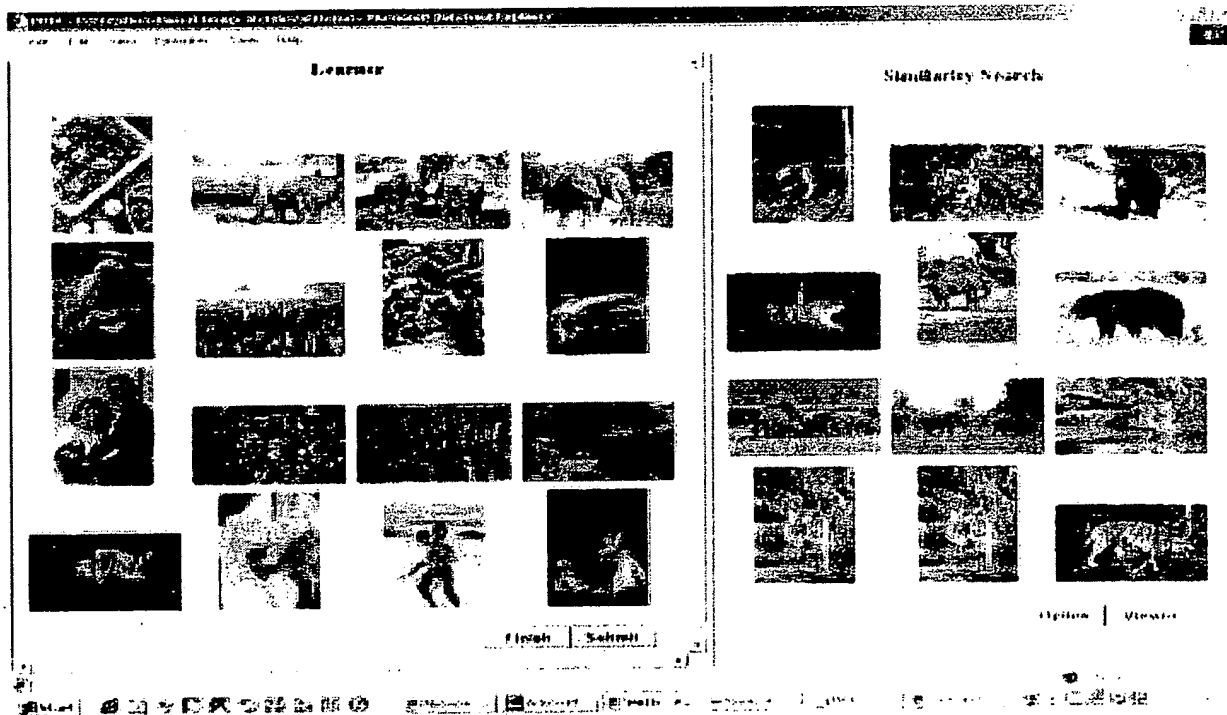


Figure 6: Wild Animal Query Screen #6.



10032319-122101

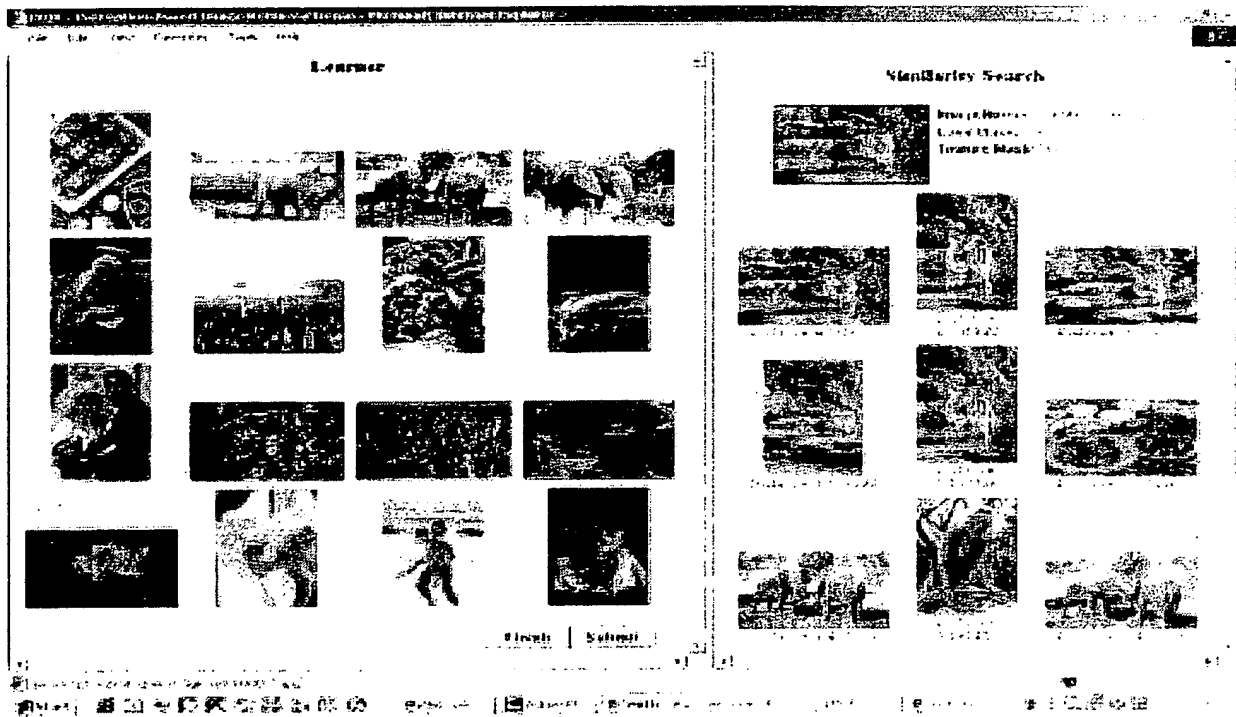
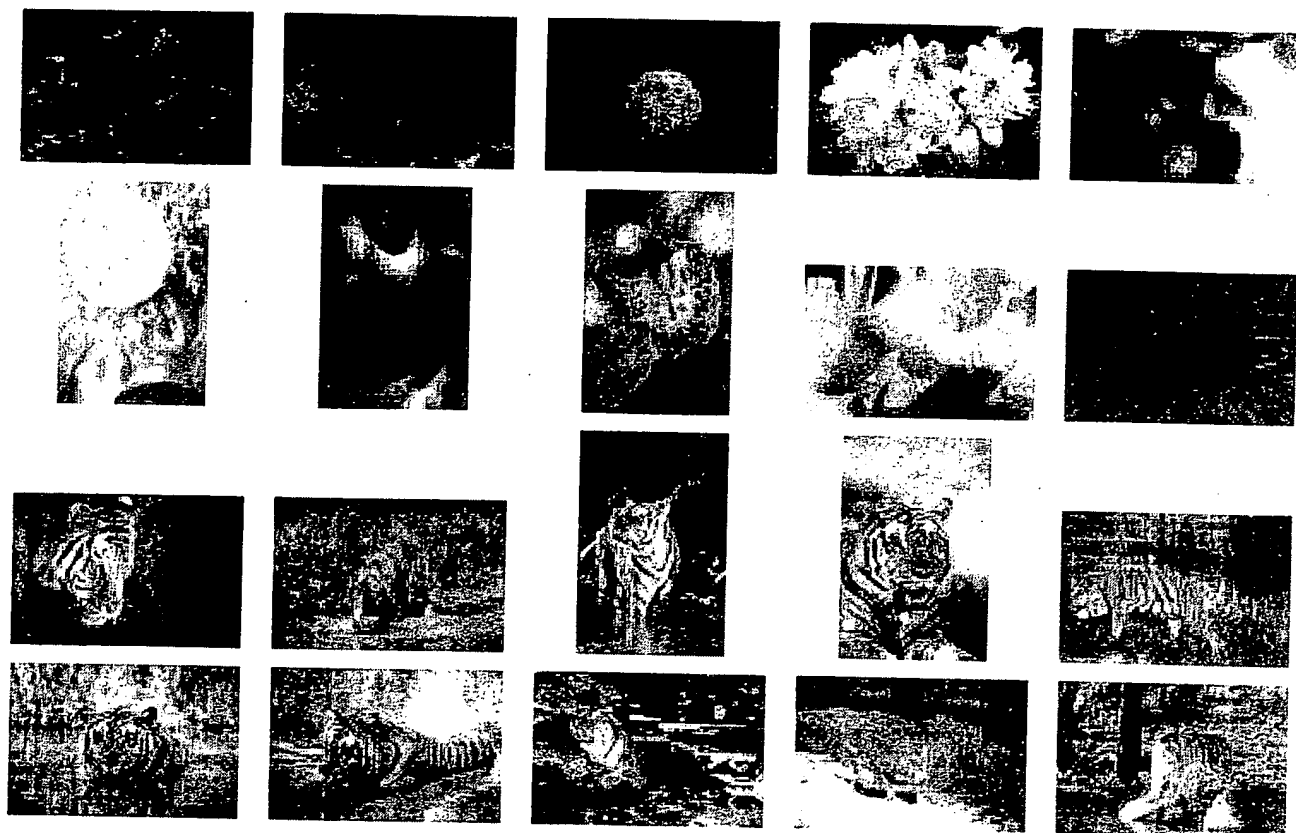
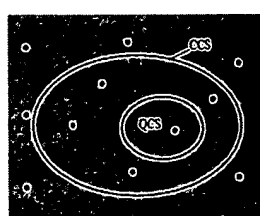


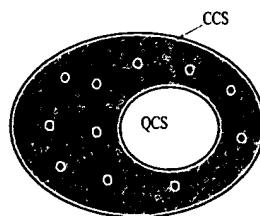
Figure 7: Wild Animal Similarity Query (Screen #7).



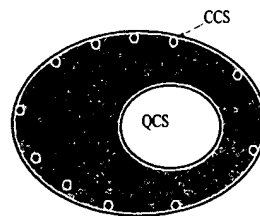
-----Figure-8: Flowers and Tigers Sample Query Results from SVM<sub>Active</sub>.



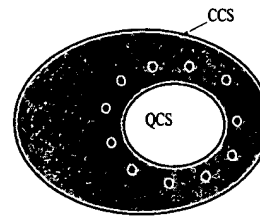
(a) Random



(b) B-Random

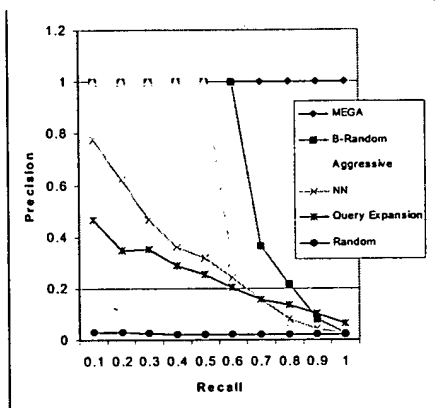


(c) Aggressive

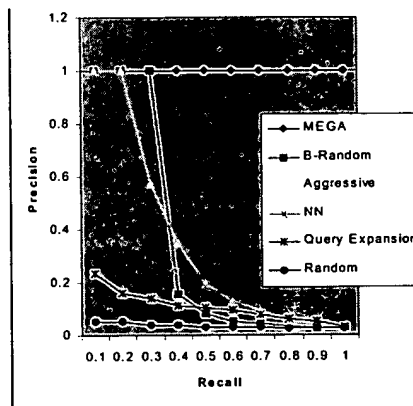


(d) MEGA

Figure 4: Sampling Schemes.

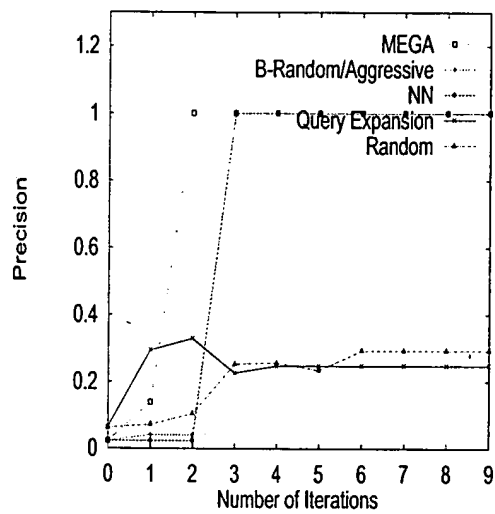


(a)  $(P_1 \vee P_2) \wedge P_3$

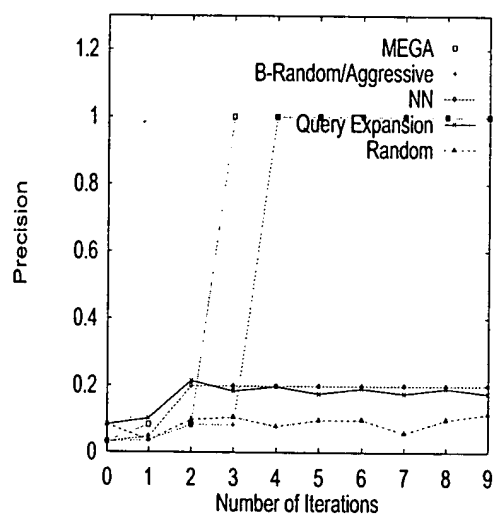


(b) Complex

Figure 5: Precision vs. Recall (10 Features).

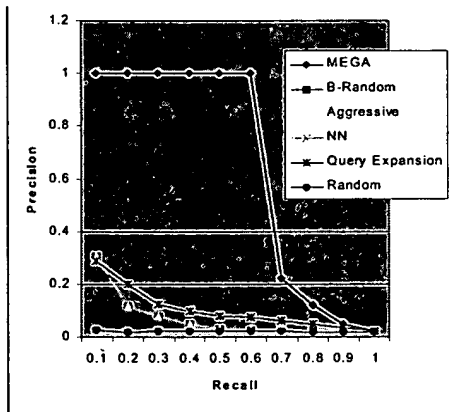


(a)  $(P_1 \vee P_2) \wedge P_3$

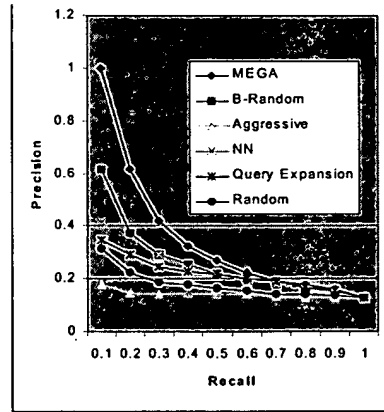


(b) Complex Query

Figure 6: Precision of Six Schemes at Recall = 50%.

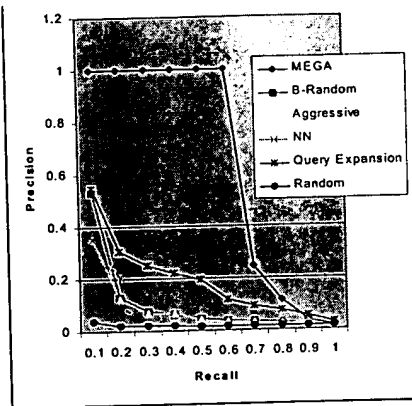


(a)  $(P_1 \vee P_2) \wedge P_3$

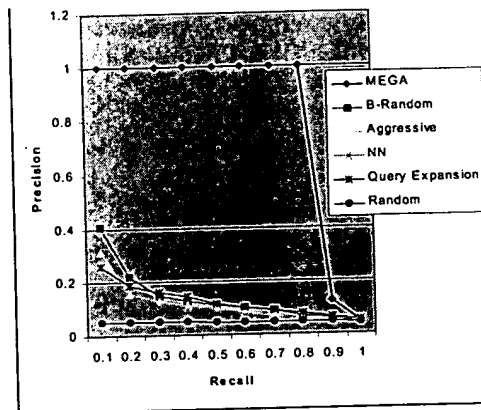


(b) Complex

Figure 7: Precision vs. Recall (20 Features).

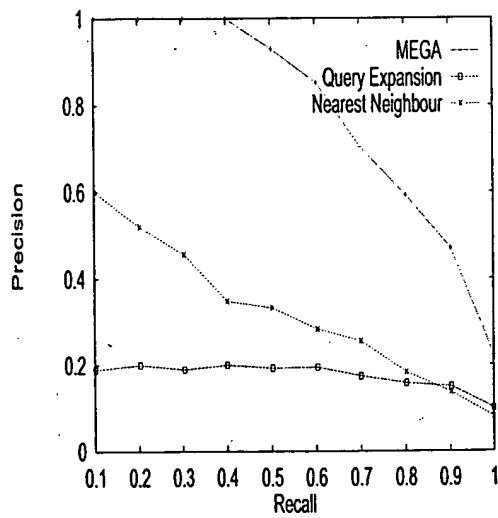


(a)  $(P_1 \vee P_2) \wedge P_3$

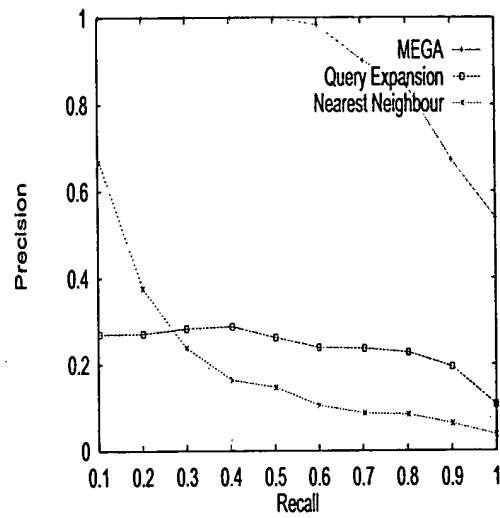


(b) Complex

Figure 8: Precision vs. Recall (30 Features).



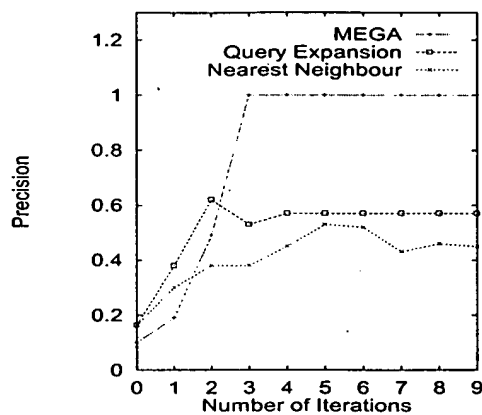
(a)  $\alpha = 0.3$



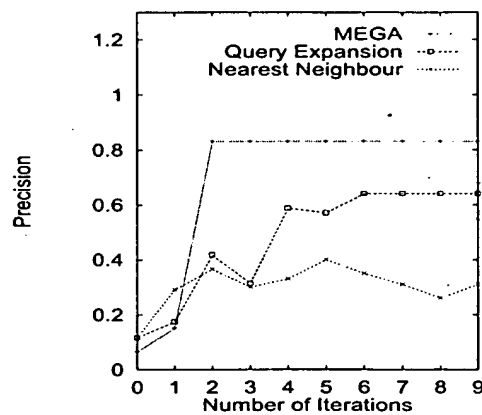
(b)  $\alpha = 0.5$

Figure 9: Recall vs. Precision (Model Bias Test).

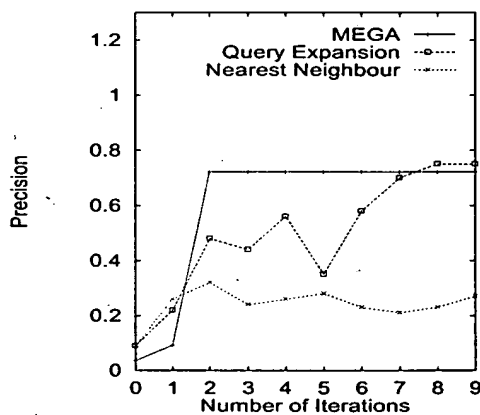




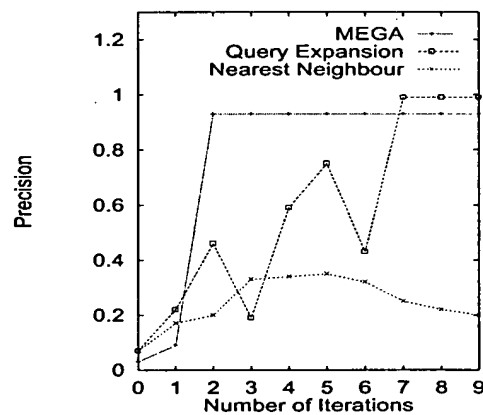
(a)  $\alpha = 0(1.0)$



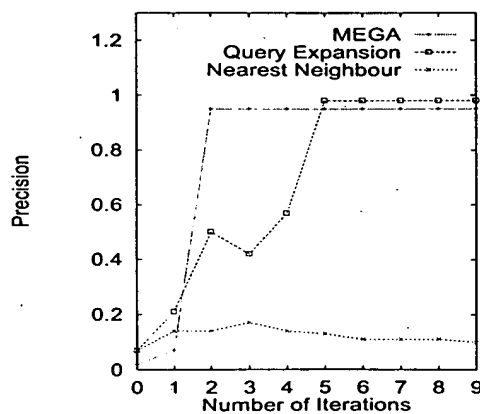
(b)  $\alpha = 0.1(0.9)$



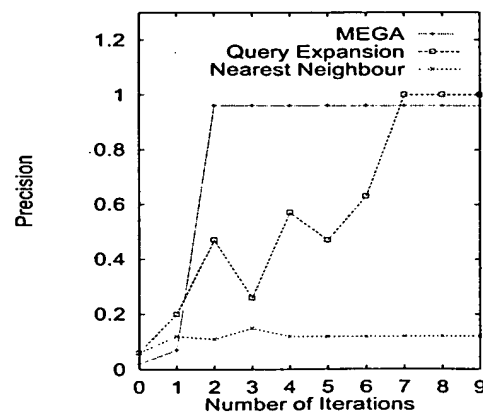
(c)  $\alpha = 0.2(0.8)$



(d)  $\alpha = 0.3(0.7)$

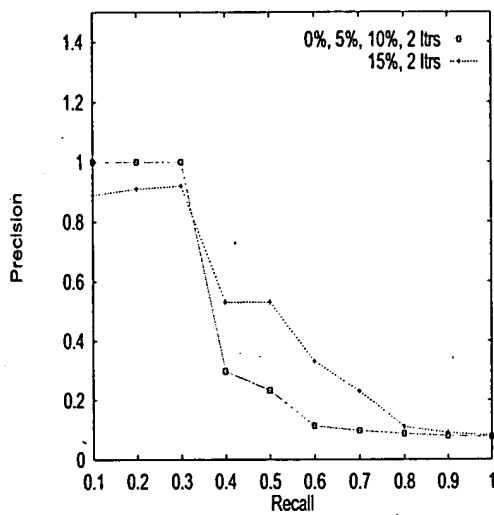


(e)  $\alpha = 0.4(0.6)$

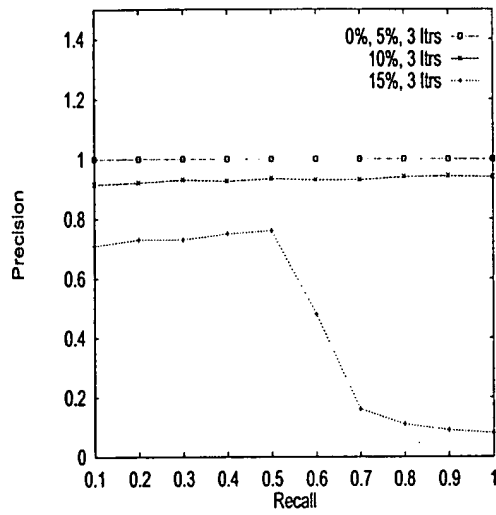


(f)  $\alpha = 0.5$

Figure 10: The Effect of Different  $\alpha$ 's.



(a) Two Iterations



(b) Three Iterations

Figure 11: Precision/Recall Under 0%, 5%, 10% and 15% Noise.

A line graph showing Precision (Y-axis, 0 to 1.2) versus Number of Iterations (X-axis, 0 to 9). Two data series are plotted: gamma = 1 (solid line with open squares) and gamma = 2 (dotted line with open circles). The gamma = 1 series starts at (0, 0.05), (1, 0.12), (2, 0.23), and then jumps to 0.94 at iteration 3, remaining constant thereafter. The gamma = 2 series starts at (0, 0.05), (1, 0.07), (2, 0.13), (3, 0.21), (4, 0.48), (5, 0.94), and then jumps to 1.0 at iteration 6, remaining constant thereafter.

Number of Iterations	Precision (gamma = 1)	Precision (gamma = 2)
0	0.05	0.05
1	0.12	0.07
2	0.23	0.13
3	0.94	0.21
4	0.94	0.48
5	0.94	0.94
6	0.94	1.00
7	0.94	1.00
8	0.94	1.00
9	0.94	1.00

A line graph showing Precision (Y-axis, 0 to 1.2) versus Number of Iterations (X-axis, 0 to 9). Two data series are plotted: gamma = 1 (dashed line with open circles) and gamma = 2 (dotted line with open squares). The gamma = 1 series starts at (0, 0.05), rises to (1, 0.08), (2, 0.55), (3, 0.78), and plateaus at 0.78 from iteration 4 onwards. The gamma = 2 series starts at (0, 0.05), remains low until iteration 3 (0.08), then rises to (4, 0.18), (5, 0.38), (6, 0.55), (7, 0.82), and plateaus at 0.92 from iteration 8 onwards.

Number of Iterations	Precision (gamma = 1)	Precision (gamma = 2)
0	0.05	0.05
1	0.08	0.05
2	0.55	0.05
3	0.78	0.08
4	0.78	0.18
5	0.78	0.38
6	0.78	0.55
7	0.78	0.82
8	0.78	0.92
9	0.78	0.92

(b) 15%

Figure 12: Effects of Noise.

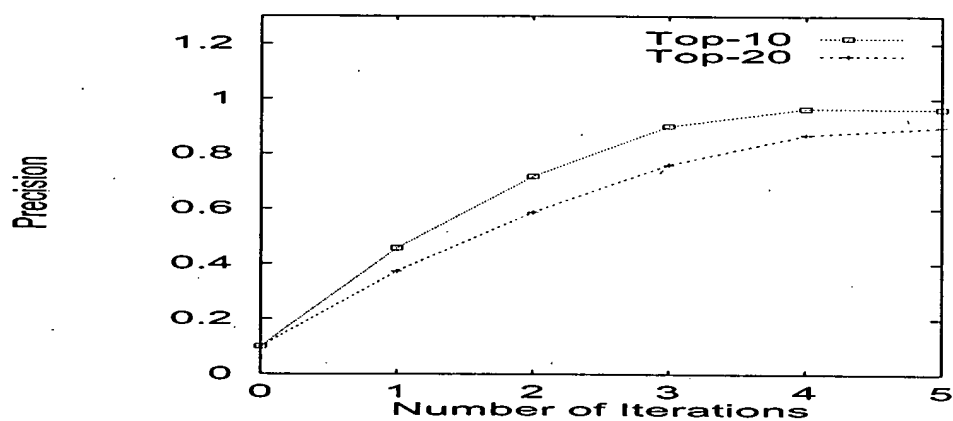


Figure 13: Average Precision of Top-10 and Top-20 Queries.

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